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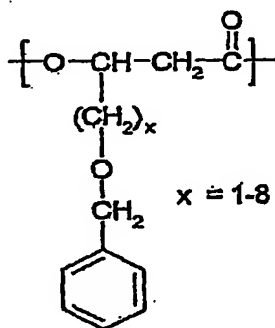
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- (71) Applicant (for all designated States except US): **CANON KABUSHIKI KAISHA** [JP/JP]; 3-30-2, Shimomaruko, Ohta-ku, Tokyo 146-8501 (JP).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **KENMOKU, Takashi** [JP/JP]; c/o CANON KABUSHIKI KAISHA, 3-30-2, Shimomaruko, Ohta-ku, Tokyo 146-8501 (JP). **YANO, Tetsuya** [JP/JP]; c/o CANON KABUSHIKI KAISHA, 3-30-2, Shimomaruko, Ohta-ku, Tokyo 146-8501 (JP). **KOZAKI, Shinya** [JP/JP]; c/o CANON KABUSHIKI KAISHA, 3-30-2, Shimomaruko, Ohta-ku, Tokyo 146-8501 (JP). **HONMA, Tsutomu** [JP/JP]; c/o
- (74) Agents: **OKABE, Masao et al.**; No. 602, Fuji Bldg., 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-0005 (JP).
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(54) Title: NEW POLYHYDROXYALKANOATE COMPRISING UNIT HAVING (PHENYLMETHYL)OXY STRUCTURE ON SIDE CHAIN THEREOF, AND METHOD FOR PRODUCING THE SAME

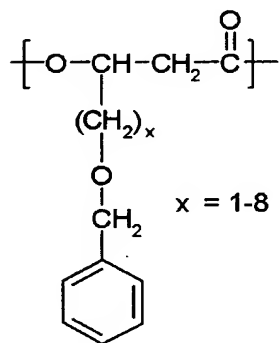


(57) Abstract: Provided are a PHA having an active group, which is produced by microorganisms with high productivity, and in which the ratio of units on its side chain having an active group can be controlled and the physical properties can be arbitrarily controlled so that its application as a polymer is not limited, and a method for producing the same. PH comprising a 3-hydroxy- ω -[(phenylmethyl)oxy]alkanoic acid unit expressed by the following chemical formula (1): wherein x can be one or more integers within the range shown in the chemical formula is provided.

ABSTRACT

Provided are a PHA having an active group,
which is produced by microorganisms with high
5 productivity, and in which the ratio of units on its
side chain having an active group can be controlled
and the physical properties can be arbitrarily
controlled so that its application as a polymer is
not limited, and a method for producing the same.

10 A 3-hydroxy- ω -[(phenylmethyl)oxy]alkanoic acid
unit expressed by the following chemical formula (1):



(1)

wherein x can be one or more integers within the
range shown in the chemical formula.

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